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Algorithm for generation of 3D face model by a photograph

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Abstract

© 2010, Institution of Russian Academy of Sciences. All rights reserved. The paper suggests a method for generating a 3D face model by a single input image. Algorithm is based on extracting the control points and characteristics features from input image and applying them to a model. A special wavelet transform is used to extract the most informative features from face photograph. Generated model can be used in face recognition systems or for visualization.

Keywords

3D face models, Face recognition, Wavelet processing